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DATE MAILED: 07/15/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

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Edwards Va	acuum, Inc.	
2041 MISSI	ON COLLEG	E BOULEVARE
SUITE 260		
SANTA CL.	ARA, CA 950	54

EXAMINER						
WU, IVES J						
ART UNIT	PAPER NUMBER					
1797						

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	FIRST NAMED INVENTOR ATTORNEY DOCKET NO.				
10/509,398	10/03/2005	Christopher James Philip Clements	M02B124				
TITLE OF INVENTION: EXHAUST GAS TREATMENT							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off tions.	or tran ig the l ierwise	smitting the ISSU Patent, advance or in Block 1, by (a	JE FEE and PUBLICAT rders and notification of a a) specifying a new corre	ION FEE (if requirements fees vispondence address	ired). I vill be ; and/o	Blocks 1 through 5 s mailed to the current r (b) indicating a sepa	hould be correspo trate "FE	completed where ndence address as E ADDRESS" for
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SANTA CLARA	A, CA 95054								(Depositor's name)
				<u> </u>					(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR ATTORNEY DOCKET NO.			CONFI	RMATION NO.	
10/509,398	10/03/2005		Chr	istopher James Philip Cler	nents	•	M02B124		5844
TITLE OF INVENTION	EXHAUST GAS TRE	ATME	NT						
APPLN, TYPE	SMALL ENTITY	IS:	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810		10/15/2010
EXAM	INER		ART UNIT	CLASS-SUBCLASS]				
WU, I			1797	423-24000R	-				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	nge of ' ' Indicated. Use	Correspondence ation form e of a Customer E PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atte listed, no name will be PITE PATENT (print or ty data will appear on the p T a substitute for filing an (B) RESIDENCE: (CIT)	3 registered pater vely, e firm (having as a agent) and the nam rneys or agents. If printed.	memb es of u no nan	er a 2p to p to see is 3		has been filed for
Please check the appropri	iate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual O	orporati	ion or other private gro	oup entity	Government
4a. The following fee(s) a Issue Fee Publication Fee (N Advance Order - #	o small entity discount j	oermitte		o. Payment of Fee(s): (Ples A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	sched. required fee(s), any de	ficiency.	
	s SMALL ENTITY state	ıs. See	37 CFR I.27.	☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) v tes Pate	will not be accepted and Trademark	d from anyone other than i Office.	he applicant; a reg	istered	attorney or agent; or th	ne assigno	e or other party in
Authorized Signature					Date				
Typed or printed name					Registration N				
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C. USPT rden, sh O NOT	11. The informatic 122 and 37 CFR O. Time will vary nould be sent to th SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi e Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 ridual case. Any co er, U.S. Patent and D THIS ADDRES:	the pub minuter omment Trader S. SEN	lic which is to file (and is to complete, including its on the amount of times ark Office, U.S. Dep D TO: Commissioner	I by the Use gathering you re artment of the partment of the p	ISPTO to process) ng, preparing, and equire to complete of Commerce, P.O. ts, P.O. Box 1450,

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APPLICATION NO.	FILE	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/509,398	10/	03/2005	Christopher James Philip Clements	M02B124	5844	
71134	7590	07/15/2010		EXAM	IINER	
Edwards Vacu	um, Inc.			WU, J	VES J	
2041 MISSION	COLLEGE	BOULEVAR	D	ART UNIT	PAPER NUMBER	
SUITE 260 SANTA CLARA, CA 95054				1797 DATE MAILED: 07/15/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 471 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 471 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/509 398 CLEMENTS ET AL. Notice of Allowability Examiner Art Unit IVES WU 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 7/7/2010. The allowed claim(s) is/are 1,3-5,8,10,11, 13-17,23,25-27. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

Application/Control Number: 10/509,398

Art Unit: 1797

EXAMINER'S AMENDMENT

(1). An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Ting-Mao Chao on July-7-2010.

The application has been amended as follows:

CANCELLING Apparatus Claims 18, 20-21.

DETAILED ACTION

(2). Total cancelled claims 2, 6-7, 9, 12, 18-22, 24 and 28.

The rejections of claims 1, 3-5, 8, 10-11, 13-17, 23, 25-27 in prior Office Action dated 2/9/2010 is withdrawn as the decision of Pre-Appeal Conference dated 6/30/2010.

Allowable Subject Matter

(3). Claims 1, 3-5, 8, 10-11, 13-17, 23 and 25-27 are allowed.

Reasons for Allowance

(4). The following is an examiner's statement of reasons for allowance:

Upon further discussion in pre-appeal conference and reconsideration of Applicants' Argument, Method claims of instant application are in condition of allowance

Although closest prior art of the record – Sachweh et al (US 6284022B1), in background teaching, disclose two-step scrubbing with the temperature range $2 \sim 50^{\circ}$ C overlapping the temperature of two steps scrubbing by hot water – at least 40 °C and cold water – less than 30 °C as claimed by Applicants. However, Sachweh et al (US 6284022B1) does not mention at what temperature the water is considered hot or cold. Applicants also address the reaction of fluoride with water at the temperature above 30° C

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surprisingly to be effectiveness of removal of F₂ from the gas effluent as recited limitation of instant method claim 1. Therefore, it differs from the Sachweh et al (US 6284022B1). Instant claims 1, 3-5, 8, 10-11, 13-17, 23, 25-27 are considered novel Method and passed to issue as date of this Allowability Notice.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to IVES WU whose telephone number is (571)272-4245. The examiner can normally be reached on 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner: Ives Wu Art Unit: 1797 Date: July 7, 2010

> /Duane Smith/ Supervisory Patent Examiner, Art Unit 1797